

In the Claims:

Claims 1 and 2 are amended herein. Non-elected claims 3-9 are canceled.

1. (currently amended) A method of diagnosing oncological diseases, ~~including~~ comprising:

~~studying~~ preparing a first low-concentration aqueous solution of a patient's native plasma or native blood serum;

studying said first low-concentration aqueous solution by a laser correlation spectroscopy (LCS) method,

~~characterized in that another~~ preparing a second low-concentration aqueous solution of the patient's native plasma or native blood serum ~~is prepared,~~

adding an alkali ~~is added~~ to one of the said first or second low-concentration aqueous solutions, and adding an acid ~~is added~~ to the other one of said first or second low-concentration aqueous solutions,

studying one of said first or second low-concentration aqueous solutions after addition of alkali and acid by a laser correlation spectroscopy (LCS) method,

determining a probabilistic distribution density of an amplitude of fluctuations in the light diffusion intensity in the 1 - 180 Hz frequency band ~~is determined~~ for each studied solution,

identifying the distribution kernel ~~is identified~~ and measuring its characteristic parameters ~~are measured~~, namely, the maximum position, the intensity, the width and the diagnostic index equal to a correlation product of the said characteristic parameters, and

if a value of the said diagnostic index falls out of the corresponding permissible value range taken as normal, diagnosing an oncological disease or a high probability of an oncological disease ~~is diagnosed~~.

2. (currently amended) The method according to Claim 1, characterized in that an additional diagnostic parameter is determined by studying the other one of said first or second low-concentration aqueous solutions after addition of alkali and acid by a laser correlation spectroscopy (LCS) method,, the relation of the diagnostic parameters obtained when studying the said solutions being used as that additional diagnostic parameter.

3. (canceled)

4. (canceled)

5. (canceled)

6. (canceled)

7. (canceled)

8. (canceled)

Appl. No. 10/529,586  
Amdt. dated January 29, 2007  
Reply to Office action of September 29, 2006

9. (canceled)